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1 Integrating visualization into event monitoring and analysis in distributed systems mana
   Stephen L. Howard, James W. Hong, Michael J. Katchabaw, Michael A. Bauer
   November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Stu
   on Collaborative research CASCON '95**
   Publisher: IBM Press
   Full text available: ▣ pdf(333.09 Additional Information: full citation, abstract, referenc·
                        KB)   index terms

   Effective management of distributed computing systems involves monitoring, analysi₁
   control of hosts, networks, and applications. The complexity of these systems calls fo₁
   innovative tools to enhance the ability of human managers to comprehend the activity
   the system in order to facilitate better management.In our research, we explore technι₁
   for visualizing the effects of management activity on a distributed computing environ₁
   Using the visualization tools of the Partial Order ...

2 Implementation of a diagnostic and troubleshooting multi-agent system for cellular netʍ
   Mahamat Guiagoussou, Said Soulhi
   August 1999 **International Journal of Network Management,** Volume 9 Issue 4
   Publisher: John Wiley & Sons, Inc.
   Full text available: ▣ pdf(570.61 Additional Information: full citation, abstract, referenc·
                        KB)   index terms

This article presents the implementation of a maintenance application for cellular swit system using the multi-agent paradigm. The main philosophy behind the design of the agent system is based on the TMN framework, where each agent can mapped with on several TMN functional blocks. Copyright © 1999 John Wiley & Sons, Ltd.

3 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Stu on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, referenc index terms

Understanding distributed applications is a tedious and difficult task. Visualizations b: on process-time diagrams are often used to obtain a better understanding of the execut the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not] the user with the desired overview of the application. In our experience, such tools dis repeated occurrences of non-trivial commun ...

4 Middleware performance analysis: Performance monitoring of java applications
M. Harkema, D. Quartel, B. M. M. Gijsen, R. D. van der Mei
July 2002 **Proceedings of the 3rd international workshop on Software and perform: WOSP '02**
Publisher: ACM Press
Full text available: pdf(219.69 KB)   Additional Information: full citation, abstract, referenc citings, index terms

Over the past few years, Java has evolved into a mature platform for developing enter applications. A critical factor for the commercial success of these applications is end-t performance, e.g., in terms of response times, throughput and availability. This raises need for the development, validation and analysis of performance models to predict performance metrics of interest. To develop and validate performance models, insight execution behavior of the application is essent ...

Keywords: performance measurement and monitoring of java applications

5 An architecture for monitoring and modeling network systems

Gerald A. Winters, Zhenjun Zhu, Michael A. Bauer, Hanan Lutfiyya, Daniel A. Muntz, J. Teorey

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Stu on Collaborative research CASCON '95**

Publisher: IBM Press

Full text available: pdf(223.09 KB) Additional Information: full citation, abstract, referenc citings, index terms

Advances in network monitoring protocols, such as SNMP and RMON, combined wit widespread availability from commercial vendors, has led to the development of tools enable system administrators to effectively manage problem domains, such as networl configuration and troubleshooting. The abundance of monitoring and data-gathering to presents an opportunity to combine network monitoring and modeling technologies to provide enhanced network management capabilities. For example, a netwo ...

6 Improving Network Operations With Intelligent Agents

Nathan J. Muller

July 1997 **International Journal of Network Management**, Volume 7 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(314.75 KB) Additional Information: full citation, abstract, index te

Automating network and system management tasks has never been easier, since the a of intelligent agents. This article describes the uses and advantages of intelligent agen identify and resolve problems locally, instead of dispatching technicians to remote loc which is both expensive and time‐consuming. © 1997 John Wiley & Sons, L

7 Verisim: Formal analysis of network simulations

Karthikeyan Bhargavan, Carl A. Gunter, Moonjoo Kim, Insup Lee, Davor Obradovic, O Sokolsky, Mahesh Viswanathan

August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 SIGSOFT international symposium on Software testing and analysis I '00,** Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(325.27 KB) Additional Information: full citation, abstract, referenc citings, index terms

Why are there so few successful "real-world" programming and testing tools based on

academic research? This talk focuses on program analysis tools, and proposes a surpri
simple explanation with interesting ramifications.For a tool aimed at developers or tes
be successful, people must use it - and must use it to help accomplish their existing ta:
rather than as an end in itself. If the tool does not help them get their job done, or the (
to learn and/or use th ...

8 Papers: Analysis of errors in network load measurements
Stanislav Belenki, Sven Tafvelin
January 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Iss\
Publisher: ACM Press
Full text available: pdf(750.73 KB) Additional Information: full citation, abstract, referenc

The paper identifies elements in network monitoring systems that cause errors in the l
measurements found in recent reports on network statistics from an academic backboı
network. Two types of network monitors are investigated: counter-based and packet
capturing. The paper explains how to assign an accuracy term to the load values in ca:
counter-based monitors and how to eliminate distortion in the case of packet capturinʒ
monitors. The paper also suggests an MIB to reduce the counter-ba ...

9 Intrusion detection: A cooperative intrusion detection system for ad hoc networks
Yi-an Huang, Wenke Lee
October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sens
networks SASN '03**
Publisher: ACM Press
Full text available: pdf(197.92 KB) Additional Information: full citation, abstract, referenc
citings

Mobile ad hoc networking (MANET) has become an exciting and important technolo;
recent years because of the rapid proliferation of wireless devices. MANETs are highl
vulnerable to attacks due to the open medium, dynamically changing network topolog
cooperative algorithms, lack of centralized monitoring and management point, and lac
clear line of defense. In this paper, we report our progress in developing intrusion detɛ
(ID) capabilities for MANET. Building on our prior work on ...

10 Extracting usability information from user interface events
David M. Hilbert, David F. Redmiles
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Publisher: ACM Press

Full text available: pdf(1.50 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u> <u>citings</u>, <u>index terms</u>, <u>review</u>

Modern window-based user interface systems generate user interface events as natura products of their normal operation. Because such events can be automatically capture because they indicate user behavior with respect to an application's user interface, the long been regarded as a potentially fruitful source of information regarding applicatio usage and usability. However, because user interface events are typically voluminos a in detail, automated support is generally ...

Keywords: human-computer interaction, sequential data analysis, usability testing, us interface event monitoring

11 <u>Congestion control: CODA: congestion detection and avoidance in sensor networks</u>
Chieh-Yih Wan, Shane B. Eisenman, Andrew T. Campbell
November 2003 **Proceedings of the 1st international conference on Embedded netw sensor systems SenSys '03**
Publisher: ACM Press

Full text available: pdf(298.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u> <u>citings</u>, <u>index terms</u>

Event-driven sensor networks operate under an idle or light load and then suddenly be active in response to a detected or monitored event. The transport of event impulses is to lead to varying degrees of congestion in the network depending on the sensing application. It is during these periods of event impulses that the likelihood of congesti greatest and the information in transit of most importance to users. To address this ch: we propose an energy efficient congestion co ...

Keywords: energy efficient congestion control, wireless sensor networks

12 <u>Intrusion detection techniques for mobile wireless networks</u>
Yongguang Zhang, Wenke Lee, Yi-An Huang
September 2003 **Wireless Networks,** Volume 9 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(164.73 Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u>

KB)   citings, index terms

The rapid proliferation of wireless networks and mobile computing applications has c
the landscape of network security. The traditional way of protecting networks with fir
and encryption software is no longer sufficient and effective. We need to search for n
architecture and mechanisms to protect the wireless networks and mobile computing
application. In this paper, we examine the vulnerabilities of wireless networks and arg
we must include intrusion detection in the securit ...

Keywords: anomaly detection, cooperative detection, intrusion detection, intrusion
response, mobile ad-hoc networks

13 A scalable SNMP-based distibuted monitoring system for heterogeneous network comp
Rajesh Subramanyan, José Miguel-Alonso, José A. B. Fortes
November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputin**
(CDROM) Supercomputing '00
Publisher: IEEE Computer Society
Full text available: pdf(171.64
KB)   Additional Information: full citation, abstract, referenc
Publisher   citings, index terms
Site

Traditional centralized monitoring systems do not scale to present-day large, complex
network-computing systems. Based on recent SNMP standards for distributed manage
this paper addresses the scalability problem through distribution of monitoring tasks,
applicable for tools such as SIMONE (SNMP-based monitoring prototype implement
the authors). Distribution is achieved by introducing one or more levels of a dual entit
called the Intermediate Level Manager (ILM) bet ...

14 Session 12C: middle agents: Supporting nomadic agent-based applications in the FIPA
architecture
Mikko Laukkanen, Heikki Helin, Heimo Laamanen
July 2002 **Proceedings of the first international joint conference on Autonomous ag**
and multiagent systems: part 3 AAMAS '02
Publisher: ACM Press
Full text available: pdf(1.45   Additional Information: full citation, abstract, referenc
MB)   citings, index terms

A high variety of Quality of Service (QoS) in data transmission over wireless network creates challenges that have not been adequately addressed in today's Internet-based services. Whereas today's distributed applications may result in treating rapid and exti changes in QoS as failures, in the nomadic environment comprising wireless data communications we consider them as a usual case. Therefore, the complexity of data transmission should be hidden from the nomadic user and applications and ...

Keywords: adaptation, agent communication, nomadic application, software agent, w networks

15 Dynamic Access Control: Dynamic and risk-aware network access management
Lawrence Teo, Gail-Joon Ahn, Yuliang Zheng
June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies SACMAT '03**
Publisher: ACM Press
Full text available: pdf(266.74 KB) Additional Information: full citation, abstract, referenc index terms

Traditional network security technologies such as firewalls and intrusion detection sy: usually work according to a static ruleset only. We believe that a better approach to n security can be achieved if we use quantified levels of risk as an input. In this paper, v describe a dynamic access control architecture which uses risk to determine whether t allow or deny access by a source connection into the network. A simulation of our architecture shows favorable and promising results.

Keywords: dynamic access control, network management, risk, risk awareness, role

16 A mobile agent infrastructure for the mobility support
Paolo Bellavista, Antonio Corradi, Cesare Stefanelli
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volt SAC '00**
Publisher: ACM Press
Full text available: pdf(826.83 KB) Additional Information: full citation, references, index

Keywords: QoS adaptation, mobile agents, mobile and nomadic computing, mobile ti
resource discovery

17 Intrusion detection in wireless ad-hoc networks

Yongguang Zhang, Wenke Lee

August 2000 **Proceedings of the 6th annual international conference on Mobile com
and networking MobiCom '00**

Publisher: ACM Press

Full text available: pdf(936.44 Additional Information: full citation, abstract, referenc
    KB)   citings, index terms

> As the recent denial-of-service attacks on several major Internet sites have shown us, :
> open computer network is immune from intrusions. The wireless ad-hoc network is
> particularly vulnerable due to its features of open medium, dynamic changing topolog
> cooperative algorithms, lack of centralized monitoring and management point, and lac
> clear line of defense. Many of the intrusion detection techniques developed on a fixed
> network are not applicable in this new environment. Ho ...

18 Controlling high bandwidth aggregates in the network

Ratul Mahajan, Steven M. Bellovin, Sally Floyd, John Ioannidis, Vern Paxson, Scott Sh

July 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(299.37 Additional Information: full citation, abstract, referenc
    KB)   citings, index terms

> The current Internet infrastructure has very few built-in protection mechanisms, and is
> therefore vulnerable to attacks and failures. In particular, recent events have illustrate(
> Internet's vulnerability to both denial of service (DoS) attacks and flash crowds in wh:
> or more links in the network (or servers at the edge of the network) become severely
> congested. In both DoS attacks and flash crowds the congestion is due neither to a sin
> flow, nor to a general increase in traffic, bu ...

19 Measurement: A high-level programming environment for packet trace anonymization a
transformation

Ruoming Pang, Vern Paxson

August 2003 **Proceedings of the 2003 conference on Applications, technologies,
    architectures, and protocols for computer communications SIGCOMN**

Publisher: ACM Press
Full text available: pdf(251.27 Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u>
KB)   <u>citings</u>, <u>index terms</u>

Packet traces of operational Internet traffic are invaluable to network research, but pul
sharing of such traces is severely limited by the need to first remove all sensitive
information. Current trace anonymization technology leaves only the packet headers i
completely stripping the contents; to our knowledge, there are no publicly available tr
any significant size that contain packet payloads. We describe a new approach to tran:
and anonymize packet traces. Our tool provide ...

Keywords: anonymization, internet, measurement, network intrusion detection, packe
trace, privacy, transformation

20 <u>Monitoring QoS distribution in multimedia networks</u>
Chen-Khong Tham, Yuming Jiang, Chi-Chung Ko
March 2000 **International Journal of Network Management**, Volume 10 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(372.73 Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u>
KB)   <u>citings</u>, <u>index terms</u>

This paper presents two schemes, relevant monitor (RM)-based and impro
relevant monitor (IRM)-based, for QoS distribution monitoring. With thes
schemes, when monitoring a real-time flow, a network manager can locate relevant m
that are metering the flow. Copyright © 2000 John Wiley & Sons, Ltd.

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Terms used **client** **agent** **server** **agent** **trace** **javascript**

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Relevance scal‹

1 Survey articles: Web usage mining: discovery and applications of usage patterns from V
◈ data
Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan
January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.44   Additional Information: full citation, abstract, referenc
              MB)   citings

Web usage mining is the application of data mining techniques to discover usage patt‹
from Web data, in order to understand and better serve the needs of Web-based applic
Web usage mining consists of three phases, namely *preprocessing, pattern discovery,*
pattern analysis. This paper describes each of these phases in detail. Given its applica
potential, Web usage mining has seen a rapid increase in interest, from both the reseal
practice communities. This pap ...

Keywords: data mining, web usage mining, world wide web

2 Resource management for scalable disconnected access to Web services
◈ Bharat Chandra, Mike Dahlin, Lei Gao, Amjad-Ali Khoja, Amol Nayate, Asim Razzaq,
Sewani

April 2001 **Proceedings of the 10th international conference on World Wide Web V '01**

Publisher: ACM Press

Full text available: 📄 pdf(410.68 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citing</u> <u>index terms</u>

3 <u>Web content accessibility guidelines 1.0</u>

Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs

July 2001 **interactions,** Volume 8 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(471.98 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citing</u> <u>index terms</u>

4 <u>Social role awareness in animated agents</u>

Helmut Prendinger, Mitsuru Ishizuka

May 2001 **Proceedings of the fifth international conference on Autonomous agents AGENTS '01**

Publisher: ACM Press

Full text available: 📄 pdf(145.59 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u> <u>citings</u>, <u>index terms</u>

This paper promotes {\itshape social role awareness\/} as a desirable capability of ani agents, that are by now strong affective reasoners, but otherwise often lack the social competence observed with humans. In particular, humans may easily adjust their beh depending on their respective role in a socio-organizational setting, whereas their synt pendants tend to be driven mostly by attitudes, emotions, and personality. Our main contribution is the incorporation of `social fil ...

Keywords: affective reasoning and emotion expression, believability, human-like qua of synthetic agents, social agents, social dimension in communication

5 <u>Measuring and characterizing end-to-end Internet service performance</u>

Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT),** Volume 3 Issu

Publisher: ACM Press
Full text available: 🗎 pdf(1.46   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u>
                    MB)   <u>citings</u>, <u>index terms</u>

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the cli population as a whole. Understanding and measuring such end-to-end service perform a challenging task. Current techniques include periodic sampling of service characteri from strategic locations in the network and instrumenting Web pages with code that r client-perceived latency back to a performance server. Li ... .

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

6 <u>The <bigwig> project</u>
◈ Claus Brabrand, Anders Møller, Michael I. Schwartzbach
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: 🗎 pdf(586.33 Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u>
                   KB)   <u>citings</u>, <u>index terms</u>

We present the results of the <bigwig> project, which aims to design and implement a level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last dec the gradual change from static to dynamic generation of Web pages. Generating Web dynamically in dialog with the client has the advantage of providing up-to-date and ta made information. The development of systems ...

Keywords: Interactive Web services, program analysis

7 <u>Open learning objects for data structure course</u>
Longzhuang Li, Hongchi Shi, Yi Shang, Su-Shing Chen
April 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 4
Publisher: Consortium for Computing Sciences in Colleges
Full text available: 🗎 pdf(111.60 Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u>
                   KB)   <u>index terms</u>

The paper presents an approach to the design of Open Learning Objects (OLOs). The approach is based on open standards, mostly XML markup languages and their relatec It enables learning-object-to-learner interaction and supports learning object adaptatio the learner. We use inner metadata to describe the OLOs with features of learner adap and interaction. OLOs designed using this approach can be used to organize learning materials of a wide range of courses, and better support le ...

8 Performance: Clarifying the fundamentals of HTTP

Jeffery C. Mogul

May 2002 **Proceedings of the 11th international conference on World Wide Web W '02**

Publisher: ACM Press

Full text available: pdf(157.39 KB) Additional Information: full citation, abstract, referenc citings, index terms

The simplicity of HTTP was a major factor in the success of the Web. However, as bc protocol and its uses have evolved, HTTP has grown complex. This complexity result numerous problems, including confused implementors, interoperability failures, diffic extending the protocol, and a long specification without much documented rationale.N of the problems with HTTP can be traced to unfortunate choices about fundamental definitions and models. This paper analyzes the current (HTTP ...

Keywords: HTTP, protocol design

9 World Wide Web: Predicting web actions from HTML content

Brian D. Davison

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypern HYPERTEXT '02**

Publisher: ACM Press

Full text available: pdf(243.13 KB) Additional Information: full citation, abstract, referenc citings, index terms

Most proposed Web prefetching techniques make predictions based on the historical references to requested objects. In contrast, this paper examines the accuracy of predic user's next action based on analysis of the content of the pages requested recently by t user. Predictions are made using the similarity of a model of the user's interest to the t and around the hypertext anchors of recently requested Web pages. This approa22ch c make predictions of actions that have never been ...

Keywords: WWW, information retrieval, prediction, prefetching, similarity, textual, ı modeling

10 N for the price of 1: bundling web objects for more efficient content delivery
Craig E. Wills, Mikhail Mikhailov, Hao Shang
April 2001 **Proceedings of the 10th international conference on World Wide Web V '01**
Publisher: ACM Press
Full text available: pdf(208.61 KB) Additional Information: full citation, references, citing index terms

Keywords: HTTP, delta encoding, persistent connections, web performance

11 Personalizing E-commerce applications with on-line heuristic decision making
Vinod Anupam, Richard Hull, Bharat Kumar
April 2001 **Proceedings of the 10th international conference on World Wide Web V '01**
Publisher: ACM Press
Full text available: pdf(261.12 KB) Additional Information: full citation, references, citing index terms

Keywords: B2C E-commerce, personalization, pro-active intervention, vortex rules s

12 An RTP-based synchronized hypermedia live lecture system for distance education
Herng-Yow Chen, Yen-Tsung Chia, Gin-Yi Chen, Jen-Shin Hong
October 1999 **Proceedings of the seventh ACM international conference on Multimı (Part 1) MULTIMEDIA '99**
Publisher: ACM Press
Full text available: pdf(930.85 KB) Additional Information: full citation, abstract, referenc index terms

In this article, we have introduced a "Live Synchronized Hypermedia Live Lecture (S System" using RTP to synchronize the live presentation of streaming video lecture, H based lecture notes, and HTML page Navigation Events. The SHLL framework consi: three major modules: (1) SHLL Recorder- for recording the temporal information of t lecture and the HTML-based lecture notes navigation processes. (2) SHLL Event Ser receiving, depositing, and multicasting SHL ...

Keywords: RTP, distance learning, multimedia synchronization

13 Managing resources and services: Metis: lightweight, flexible, and Web-based workflov services for digital libraries
Kenneth M. Anderson, Aaron Andersen, Neet Wadhwani, Laura M. Bartolo
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital librari JCDL '03**
Publisher: IEEE Computer Society
Full text available: pdf(154.93 Additional Information: full citation, abstract, referenc
           KB)   citings, index terms

The Metis project is developing workflow technology designed for use in digital libra avoiding the assumptions made by traditional workflow systems. In particular, digital libraries have highly distributed sets of stake-holders who nevertheless must work tog to perform shared activities. Hence, traditional assumptions that all members of a wor belong to the same organization, work in the same fashion, or have access to similar computing platforms are invalid. The Metis approach ...

14 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital sky data
Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Ra Christopher Stoughton, Jan vandenBerg
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press
Full text available: pdf(1.48   Additional Information: full citation, abstract, referenc
           MB)   citings, index terms

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS for both astronomers and for science education. This paper describes the SkyServer g(and architecture. It also describes our experience operating the SkyServer on the Inter

The SDSS data is public and well-documented so it makes a good test platform for res on database algorithms and performance.

15 The architecture of robust publishing systems

Marc Waldman, Aviel D. Rubin, Lorrie Faith Cranor

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issu

Publisher: ACM Press

Full text available: pdf(680.21 Additional Information: full citation, abstract, referenc
                         KB)   index terms

The Internet in its present form does not protect content from censorship. It is straightforward to trace any document back to a specific Web server, and usually dire an individual. As we discuss below, there are valid reasons for publishing a document censorship-resistant manner. Unfortunately, few tools exist that facilitate this form of publishing. We describe the architecture of robust systems for publishing content on t Web. The discussion is in the context of Publius, as that ...

Keywords: Censorship resistance, Web publishing

16 A component model for standardized web-based education

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(384.31 Additional Information: full citation, abstract, referenc
                         KB)   index terms, review

We present a layered component model to support Web-based collaborative applicatio We show how this model lets programmers focus on the particular logic of their applications, avoiding most of the issues related to collaboration, access control, and network management. The proposed model is organized into three layers on top of a foundation composed of commercial-off-the-shelf services and standard Internet proto The service level provides a network-transparent communications layer, data ...

Keywords: authoring tools, collaborative systems, educational web applications, learn technology standardization, web-based course delivery systems

17

Full Papers: Intelligent analysis of user interactions with web applications

Laila Paganelli, Fabio Paternò
January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces IUI '02**
Publisher: ACM Press
Full text available: pdf(761.23 KB) Additional Information: full citation, abstract, referenc citings, index terms

In this paper, we describe a tool able to perform intelligent analysis of Web browser l using the information contained in the task model of the application. We show how th approach supports remote usability evaluation of Web sites.

Keywords: remote evaluation, task models, tools, usability

18 Exploiting space and location as a design framework for interactive mobile systems
Alan Dix, Tom Rodden, Nigel Davies, Jonathan Trevor, Adrian Friday, Kevin Palfreym
September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI),** V 7 Issue 3
Publisher: ACM Press
Full text available: pdf(282.97 KB) Additional Information: full citation, abstract, referenc citings, index terms

This article considers the importance of context in mobile systems. It considers a rang context-related issues and focus on location as a key issue for mobile systems. A desi framework is described consisting of taxonomies of location, mobility, population, an device awareness. The design framework inorms the construction of a semantic mode space for mobile systems. The semantic model is reflected in a computational model t a distriuted platform that allows contextual info ...

Keywords: awareness, context information, design framework, location-sensitive applications, mobile systems, platform support, shared interaction, virtual space

19 Weakly augmented reality: observing and designing the work-place of creative designer
Giorgio De Michelis, Flavio De Paoli, Costanza Pluchinotta, Marco Susani
April 2000 **Proceedings of DARE 2000 on Designing augmented reality environmen DARE '00**
Publisher: ACM Press

Full text available: 📄 pdf(387.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u> <u>citings</u>, <u>index terms</u>

In this paper we distinguish between two spatially oriented system design paradigms: and strong augmented reality. The weak augmented reality paradigm is then applied ii design of a system supporting co-operation and knowledge creation within a design c The system has been designed on the hints we got from two subsequent ethnographies work practice of creative designers. Since the design centre moved to a new location between our two sets of observations, we clearly focu ...

Keywords: augmented reality, creative design, knowledge management systems, spat arrangements

20 <u>A two-stage modeling and simulation process for web-based modeling and simulation</u>

Taewoo Kim, Jinho Lee, Paul Fishwick

July 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS),** Volume 12 Issue 3

Publisher: ACM Press

Full text available: 📄 pdf(883.66 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>referenc</u> <u>citings</u>, <u>index terms</u>

The area of web-based simulation has thrived primarily on novel methods for executii models, with contributions to both client and server side applications based in Java an web-accessible languages. However, there has not been a commensurate degree of res in the area of model design, and in the dissemination of models over the web to suppo discrete event simulation. For a web-based modeling framework to succeed, that fram must support at least one markup language for specifyi ...

Keywords: DOM, Modeling, Simulation, X3D, XML, XSLT, framework, methodolo multimodeling, web-based

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